Seagate ®

Product Overview

Cheetah® 15K.6
Cheetah 15K.6 FDE

**Highest capacity, reliability and security
in mission-critical storage**

Key Features and Benefits

- World's first self-encrypting hard drive for mission-critical servers and storage arrays*
- Second-generation perpendicular recording delivers up to 450 GB of storage.
- Unprecedented performance with a sustained data rate of up to 164 MB/sec
- The industry's highest 3.5-inch drive reliability at 1.6-million-hours MTBF
- PowerTrim™ technology provides 61 percent improvement in watts/GB at idle.
- Advanced read/write technology drives an error rate of 1x10E16.
- Integrated data integrity provisions protect against system miscompare errors.
- Available with either an FC or a SAS interface

Key Applications

- Email
- Business processing
- Transaction processing
- Decision support
- Storage area networks
- Network attached storage
- Internet and ecommerce

*The Cheetah 15K.6 FDE drive is available only to major OEM suppliers.

Seagate
Secure™

Seagate
5-Year
Warranty

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The Seagate Advantage

The Seagate® Cheetah® 15K.6 and Cheetah 15K.6 FDE drives have a SAS or FC interface and are the highest-performing drives in 3.5-inch storage with a maximum sustained transfer rate of 164 MB/sec, representing a 28 percent increase in sustained data transfer rate over its predecessor. Second-generation perpendicular recording provides 450 GB of storage capacity with state-of-the-art recording technology and comprehensive data integrity protection, enabling an error rate of $1\times10E16$ and an MTBF of 1.6 million hours (0.55 percent AFR).

The Cheetah 15K.6 and Cheetah 15K.6 FDE drives include Seagate PowerTrim technology, which dynamically optimizes drive power consumption at all levels of activity. With PowerTrim technology, the drives deliver the highest performance in its class without increasing power consumption. The drives lower idle and operational power requirements from the prior generation—as much as 61 percent in watts/GB—while increasing overall sustained data transfer rates by 28 percent at 164 MB/s.

Highest Capacity and Reliability

Seagate Cheetah 15K.6 and Cheetah 15K.6 FDE drives provide the highest sequential and transactional performance of any 3.5-inch drive in the enterprise market. Utilizing second-generation perpendicular recording technology and available in capacities of 450, 300 and 146 GB, these Cheetah family drives provide an unprecedented blend of storage capacity and performance. Add to that the highest 3.5-inch reliability in the industry at 1.6 million hours MTBF (0.55 percent AFR), a choice of FC or SAS interfaces, and a 5-year limited warranty, and you have a star performer for mission-critical SAN, NAS, transactional processing and Internet applications.

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Specifications	
Capacity (GB)	450, 300 and 146
Interface	SAS, FC
Cache (MB)	16
Spindle Speed (RPM)	15,000

Self-Encrypting Drives in the Data Center

The Seagate Cheetah 15K.6 FDE* drive is part of the Seagate Secure™ portfolio of self-encrypting drives, providing superior security and manageability. From the moment the drive is removed from the data center, whether intentionally or otherwise, the data on the drive is secure. The key features and benefits of self-encrypting drives include:

- Secures data, preventing data breach, avoiding fees and data privacy law notification costs

- Always-on encryption, whether the drive is moved, stored, returned or retired

- Dramatically reduces drive decommissioning costs

- Transparent to the OS, applications, databases, database administrators and application developers

- Enables secure erase of drives for disposal, repurposing, and secure warranty and lease return

- Standards based, designed for interoperability

- Reduces complexity of key management and tracking, and eases proof of compliance

- Automatically maintains high system performance so there is less need for data classification

- Enables full storage system data compression and de-duplication, saving storage space

www.seagate.com
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